

New Course Offering: *Introduction to GPS using ArcPad*

BY KATIE LEWERS

BOGS is excited to announce a new, two-day course, *Introduction to GPS using ArcPad*, for individuals interested in learning how to use a GPS (Global Positioning System) unit to collect data in the field. This course will appear at the end of the April - September 2017 Training Schedule.

The course will be taught using a Trimble 3b unit, Esri's ArcPad software, and a laptop computer. All equipment and materials required for the training will be provided for the duration of the course. Class sizes will be limited to 8 students to ensure optimal instructor to student ratio, especially during the outdoor field collection portions. The course will cover GPS theory and principles, hardware, software, collecting data in the field using ArcPad, editing data in the office using ArcPad, and setting up quickforms for more efficient collection of GPS data in the field. No prior Geographic Information Systems (GIS) or GPS experience is required.

Note: ArcPad is not covered by the BIA Esri Enterprise License Agreement through the Department of the Interior, but is available to purchase directly from Esri. Please contact Rod Schardein at 1-800-447-9778 ext. 1664 or rschardein@esri.com to obtain tribal and BIA pricing.

Introduction to GPS was one of the most requested additions to the BOGS course list. BOGS already has many requests for this training, and classes are anticipated to fill quickly.



BOGS Trainer Chris Caird explains how to use the GPS unit.

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A student records a location in the GPS unit.

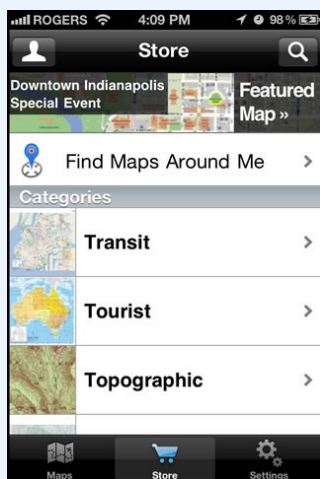


Image: A screenshot of the Avenza Maps Pro app. Source: Avenza.

Avenza Maps Pro Now Available

BY STEVE MESA

BOGS now has the opportunity to offer Avenza Maps Pro to Indian Country as a provision of the Enterprise License Agreement (ELA) program. Avenza Maps Pro is a mobile application that allows users to download personal maps and other publically available maps over a wireless or cellular network. Avenza Maps Pro allows unlimited imports of geospatial PDF, GeoTIFF, GeoPDF®, and JPG (with appropriate reference files). A useful feature of the application is that users can access these maps offline.

Please contact the Geospatial Support Help Desk at geospatial@bia.gov to request the installation instructions and the authorization code. If you have any questions, please call the Geospatial Support Help Desk toll-free at 877-293-9494.

For more information about the features of Avenza Maps Pro visit: <https://www.avenzamaps.com/index.html>

CURRENT STAFF

Front Row (L to R)

Steve Mesa, GPC
Program Analyst
Brad Tatham, GISP
Senior Geospatial
Trainer
Katie Lewers
Geospatial Trainer
Chris Caird, GISP
Geospatial Trainer

Back Row (L to R)

Rod Kuhns
GIS Applications
Architect
Donna Offerson
ELA Coordinator/
Technical Support
Administrator
Phillip Julian
GIS Analyst



Back Row (L to R)

continued

David O'Donnell
GIS Analyst
Robin Lovato
Geospatial Support
Coordinator
Shane Willard, GISP
Geospatial Program
Manager/Contract Lead

Not Pictured

Chad Wallace
BOGS Branch Chief
Heston Smith
Program Analyst
Jeff Fennell, GISP
Geospatial Trainer
Kevin Cebulski
GIS Analyst
Sara Dunlap
GIS Analyst

New Staff Member: Robin BY ROBIN LOVATO

Originally hired in 2014 to work with the Branch of Forestry Resource Planning, Division of Forestry, Robin moved to the BOGS group in November 2016 to work as the Geospatial Support Coordinator. Prior to coming onboard with the BIA, she worked for the U.S. Antarctic Program for 15 years. Robin completed five austral summer deployments to Antarctica working in the Crary Lab providing administrative support to scientists and their research teams. During her last deployment in 2004–2005 she had the privilege of meeting Sir Edmund Hillary! Robin volunteers occasionally for Habitat for Humanity, Salvation Army, and Meals on Wheels to name a few. She is an animal lover and shares her home with a dog and two cats. In her off time she likes to pretend she is a rock star and plays in a “basement” band.



New Staff Member: Chris BY CHRIS CAIRD



Chris Caird joined the BOGS team in November as a Geospatial Technical Trainer for the BIA. Chris received a B.S. in Environmental Science from Michigan State University with a minor in Entomology. He also received a M.A. from Western Michigan University in GIS and Remote Sensing, specializing in image analysis centered upon rates of change. Chris previously worked for local municipalities wearing many GIS hats as an analyst and trainer in GPS and GIS with an emphasis on environmental stewardship. After spending nine years in the south, Chris and his wife relocated to Colorado. In Denver, Chris worked as a Photogrammetry Administrator and a Spatial Data Integrity Analyst for an oil and gas company. In his free time, Chris enjoys mountain biking, all things Mazda Miata, old BMW motorcycles, kiteboarding, snowboarding, soccer, foreign travel, backcountry camping, fine dining, volunteerism, concerts, the arts, and the occasional insect. Chris is excited to contribute to the mission of the BIA and for the next series of adventures in his free time!

What are Esri MOOCs? BY DONNA OFFERSON

MOOC stands for Massive Open Online Course. Esri MOOCs are available for free to anyone interested in learning more about how to use ArcGIS software. Unlike the ESRI e-Learning courses, access to the MOOCs does not require a customer number. Each Esri MOOC is a six-week course and offers practical exercises, short video lectures, quizzes, examples, and discussion. Classes are available day and night and only require a few hours of study per week. A certificate of completion is provided upon completion of the course. Course topics range from developing your own geospatial applications to learning how to use location information to benefit businesses. For a complete list of courses and information on how to sign up, visit <http://www.esri.com/mooc>.

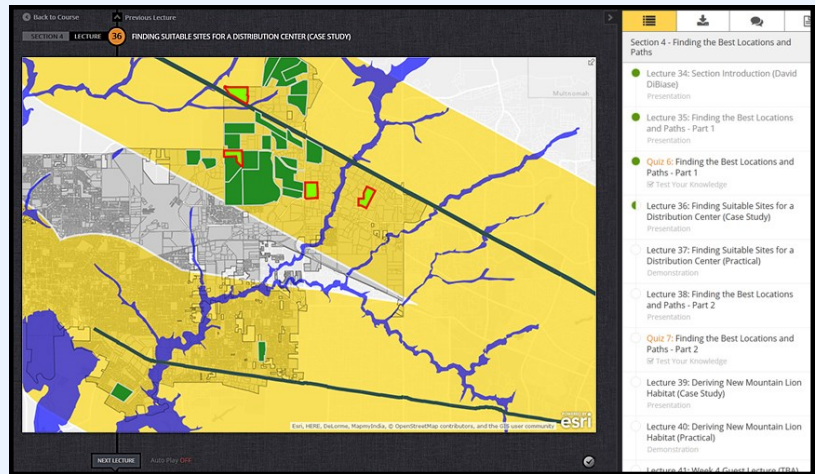


Image: A screenshot of an Esri MOOC lecture. Source: Esri.

BOGS Trainer Accreditations BY CHRIS CAIRD

All the BOGS Trainers, Chris, Brad, Katie and Jeff, maintain two essential accreditations that allow the BOGS training group to deliver outstanding training and new course development, which is specifically tailored for members of federally recognized tribal entities.



The first of the three accreditations is known as the ArcGIS Desktop Associate Certification. The ArcGIS Desktop Associate exam tests the candidate's experience of applying ArcGIS concepts and processes to ESRI workflows. Qualified candidates exhibit proficiency in best practices and uses of ArcGIS for Desktop as well as being skilled at using ArcGIS for Desktop to visualize, manage, and analyze geospatial data. For more information visit www.esri.com/training.



The second accreditation is known as the CompTIA Certified Technical Trainer (CTT+) certification. This is for instructors and employers to verify the trainer has attained a standard of excellence in the training field. CompTIA states, "The program provides a globally recognized measure of core skills, actions, and behaviors that competent instructors must demonstrate. To earn the CTT+ designation, candidate must pass both a computer-based test that assesses knowledge and a performance-based exam in which the candidate demonstrates prescribed skills." For more information visit www.certification.comptia.org/certifications/ctt.



Another accreditation held by Jeff, Chris, and Brad is the title of Geographic Information Systems Professional (GISP) from the GIS Certification Institute. The GISP title is achieved through an internationally recognized certification program that involves an examination as well supporting documentation. The purpose of this accreditation is to provide GIS professionals with a formal process that will allow them to demonstrate professional competence and integrity in the field. This means maintaining and establishing high standards of both ethical and professional conduct as a GISP. Visit www.gisci.org for more information.

Tribal GIS Conference 2016 BY SARA DUNLAP

This past November several BOGS staff had the opportunity to attend the National Tribal GIS Conference in Albuquerque, New Mexico. Over the course of two days BOGS team members led workshops on Data Driven Pages, Story Maps, Cartographic Tips and Tricks, Model Builder, and more. Several members also gave talks during the conference and passed out information about BOGS services and training dates. BOGS was grateful for the opportunity to meet and assist tribal members at the BOGS booth and to share our GIS knowledge through the workshops.



Source: TRIBALGIS.COM.

APRIL — SEPTEMBER 2017

GEOSPATIAL TRAINING SCHEDULE

BOGS provides geospatial training for employees of federally recognized tribal entities and to Office of Trust Services (OTS) supported functions within the BIA. OTS supported functions includes GIS related activities under the Divisions of Real Estate Services, Land Titles and Records, Probate, Natural Resources, Forestry and Wildland Fire Management, and Water and Power. All slots not filled one month before the beginning of the course will then be open to and filled on a first come, first served basis by employees of federally recognized tribal entities and with employees of the BIA from any office.

There is no tuition cost for this training. Training equipment and training materials are provided by BOGS. Expenses for transportation, hotel accommodations, and meals are the responsibility of the participant's organization. Training courses are available at the BOGS Lakewood Training Facility in Lakewood, Colorado and at various field locations per request and availability.

Principles of GIS (Beginner level)			
Tribe/Office	Training Location	Region	Date
Rocky Mountain Regional Office	Billings, MT	Rocky Mountain	Apr 3–6
Lakewood Training Facility	Lakewood, CO	-	May 8–11
Coyote Valley Band of Pomo Indians	Redwood Valley, CA	Pacific	May 22–25
Lakewood Training Facility	Lakewood, CO	-	Jun 26–29
Alaska Regional Office	Anchorage, AK	Alaska	Jul 24–27
Lakewood Training Facility	Lakewood, CO	-	Aug 7–10
Lakewood Training Facility	Lakewood, CO	-	Aug 28–31
Introduction to GPS (Beginner level)			
Tribe/Office	Training Location	Region	Date
Bad River Band of Lake Superior Tribe of Chippewa Indians	Odanah, WI	Midwest	Apr 18–19
Lakewood Training Facility	Lakewood, CO	-	May 2–3
Coyote Valley Band of Pomo Indians	Redwood Valley, CA	Pacific	May 15–16
Robinson Rancheria of Pomo Indians of California	Nice, CA	Pacific	May 18–19
Rocky Mountain Regional Office	Billings, MT	Rocky Mountain	Jun 27–28
Pine Ridge Agency	Pine Ridge, SD	Great Plains	Aug 7–8
Yakama Agency	Toppenish, WA	Northwest	Aug 28–29
Cow Creek Band of Umpqua Tribe of Indians	Rosenburg, OR	Northwest	Aug 31–Sep 1
Lakewood Training Facility	Lakewood, CO	-	Sep 12–13
Cheyenne & Arapaho Tribes	Concho, OK	Southern Plains	Sep 21–22
Lakewood Training Facility	Lakewood, CO	-	Sep 27–28
Introduction to Cartography* (Intermediate level)			
Tribe/Office	Training Location	Region	Date
Penobscot Nation	Bangor, ME	Eastern	May 8–11
Lakewood Training Facility	Lakewood, CO	-	May 22–25
Navajo Nation	Window Rock, AZ	Navajo	Jun 5–8
Pauma Band of Luiseno Mission Indians	Pauma Valley, CA	Pacific	Aug 7–10
Introduction to Remote Sensing (Intermediate level)			
Tribe/Office	Training Location	Region	Date
NASA	Lakewood, CO	-	Jun 12–14
NASA	Albuquerque, NM	Southwest	Aug 21–23

All courses are taught in ArcGIS version 10.2.2 and ArcPad 10.2 unless otherwise indicated.

* Indicates this course has a prerequisite.

Due to the high demand for training, please register early to help ensure placement in the requested course.

To register for a course, email or fax a completed and signed registration form to geospatial@bia.gov.

Visit the Geospatial Support website at <https://bia.gov> and select **Geospatial** from the dropdown, call the Geospatial Support Help Desk at 1-877-293-9494, or email geospatial@bia.gov for a copy of the latest training brochure, which includes a registration form, course descriptions, cancellation and absence policies, priority information, and other training policies.

BUREAU OF INDIAN AFFAIRS | DIVISION OF LAND TITLES AND RECORDS | BRANCH OF GEOSPATIAL SUPPORT
13922 Denver West Parkway, Building 54, Suite 300, Lakewood, CO 80401
Phone: 877.293.9494 (toll-free) Fax: 303.231.5229 Email: geospatial@bia.gov
Website: <https://bia.gov> (select Geospatial from the Categories dropdown)

Background image
source: USGS Topo.